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## NOTICE OF ALLOWANCE AND FEE(S) DUE

32650 7590 11/18/2009 WOODCOCK WASHBURN LLP CIRA CENTRE, 12TH FLOOR 2929 ARCH STREET PHILADELPHIA, PA 19104-2891

EXAMINER				
MCGARRY, SEAN				
ART UNIT	PAPER NUMBER			
1635	•			

DATE MAILED: 11/18/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/078,949	02/20/2002	Stanley T. Crooke	ISIS-5027	8454
TITLE OF INVENTION: OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	02/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used I correspondence including d below or directed off tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification () specifying a new o					tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
CIRA CENTRE 2929 ARCH STI	WASHBURN LI , 12TH FLOOR REET	/2009 .P			I bor	Cer	tificate	of Mailing or Trans	
PHILADELPHI.	A, PA 19104-2891								(Depositor's name)
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nonprovisional	YES		\$755	\$300		\$0		\$1055	02/18/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS	S				
MCGARR	Y, SEAN		1635	435-006000					
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.11. Comp	nge of "Indicated, Use	Correspondence ation form e of a Customer		up to rnative single y or a t attor ill be or type the pa	3 registered paten ely, 2 firm (having as a gent) and the nam neys or agents. If printed. e) ttent. If an assign assignment.	memb es of u no nan	er a 2 p to e is 3 lentified below, the do	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ories (will not be pr	inted on the patent):		Individual Co	orporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted:    Itsue Fee   Politication Fee (No small entity discount permitted)   Advance Order - # of Copies			ed)	A check is enclosed.  Payment by cred.  The Director is he	sed. it care	i. Form PTO-2038	is atta	required fee(s), any det	
	s SMALL ENTITY state	ıs. See	37 CFR I.27.					FITY status. Sec 37 CF	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req ecords of the United Sta	uired) v ites Pat	will not be accepted ent and Trademark	from anyone other t Office.	han th	ne applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of inform an application. Confident submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C. USPT rden, sl O NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection depending upon the Echief Information COMPLETED FORM	n or n is est indiv Office IS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D'THIS ADDRESS	he pub minute: mment Trader i. SEN	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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CIRA CENTRE		LOOR		ART UNIT	PAPER NUMBER
2929 ARCH ST PHILADELPHI		104-2891		1635 DATE MAIL ED: 11/18/200	9

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 257 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 257 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/078,949 CROOKE, STANLEY T. Notice of Allowability Examiner Art Unit Sean R. McGarry 1635 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS

NOTICE OF ALLOWABILITY IS NOT A GRANT OF PAT of the Office or upon petition by the applicant. See 37 CFI	ENT RIGHTS. This application is subject to withdrawal from issue at the initiati R 1.313 and MPEP 1308.
<ol> <li>This communication is responsive to papers filed 6.</li> </ol>	/16/09 and 3/11/09.
2. The allowed claim(s) is/are 165,167-183 and 202-2	<u>58</u> .
Copies of the certified copies of the pric     International Bureau (PCT Rule 17.2(a)     Certified copies not received:	its have been received.  Its have been received in Application No  prity documents have been received in this national stage application from the ().  DATE* of this communication to file a reply complying with the requirements
	e submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF ich gives reason(s) why the oath or declaration is deficient.
1)  hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Example Paper No./Mail Date	aftsperson's Patent Drawing Review ( PTO-948) attached
	e deposit of BIOLOGICAL MATERIAL must be submitted. Note the MENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.
Attachment(s)	5. Notice of Informal Patent Application

1) I hereto or 2) I to Paper No./Mail Date	
<ul><li>(b) ☐ including changes required by the attached Examiner's Amendi Paper No./Mail Date</li></ul>	ment / Comment or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) sheach sheet. Replacement sheet(s) should be labeled as such in the header	
DEPOSIT OF and/or INFORMATION about the deposit of BIO attached Examiner's comment regarding REQUIREMENT FOR THE	
Attachment(s)	
Notice of References Cited (PTO-892)	<ol><li>Notice of Informal Patent Application</li></ol>
Notice of Draftperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413),     Paper No./Mail Date .
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/06/08;8/28/09;5/23/08</li> </ol>	7. ☐ Examiner's Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance
or Biological Waterial	9.  Other
/Sean R McGarry/	
Primary Examiner, Art Unit 1635	
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Application/Control Number: 10/078,949

Art Unit: 1635

# REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The response filed 3/11/09 is sufficient to overcome the rejections of record. The terminal disclaimers filed 3/11/09 have been reviewed and accepted. The utility of the claimed invention is described in Examples 23, 24, 27a, 27b, 27c, 29 and in Table 1.

Citation 826 on page 44 ["Table Listing Related..."] of the IDS filed 8/28/09 has been lined through since this citation is not considered a published reference. The information contained therein has, however, been considered.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean R. McGarry whose telephone number is (571) 272-0761. The examiner can normally be reached on M-Th (6:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Tracy Vivlemore can be reached on 571.272.2914. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/078,949

Art Unit: 1635

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sean R McGarry Primary Examiner Art Unit 1635

/Sean R McGarry/ Primary Examiner, Art Unit 1635